

Electronic Filing System (EFS) Data  
Electronic Patent Application Submission  
USPTO Use Only

EFS ID: 11867  
Application ID: 09682040  
Title of Invention: SYSTEM AND METHOD FOR  
QUERY REFINEMENT TO ENABLE  
IMPROVED SEARCHING BASED ON  
IDENTIFYING AND UTILIZING  
POPULAR CONCEPTS RELATED TO  
USERS' QUERIES  
First Named Inventor: Raman Chandrasekar  
Domestic/Foreign Application: Domestic Application  
Filing Date: null  
Effective Receipt Date: 2001-07-12  
Submission Type: Utility Patent Filing  
Filing Type: new-utility  
Confirmation Number: 0  
Attorney Docket Number: 1018.134US1  
Digital Certificate Holder: cn=Michael Andrew Dryja, ou=Registered Attorneys, ou=Patent and  
Trademark Office, ou=Department of Commerce, o=U.S.  
Government, c=US  
Certificate Message Digest: Z8BJSRtJOoBBG/PKUb2fSA==  
Total Fees Authorized: \$1144.0  
Payment Category: CC - Credit Card  
Credit Card Number: \*\*\*\*\*1000  
Expiration Date: 02282003  
Card Holder Name: Michael Dryja  
RAM User ID: EFSPROD  
RAM Accounting Date: 2001-07-13  
RAM Sequence Number: 312809



09682040-071201

RAM Payment Status:

RAM success

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# TRANSMITTAL FORM

1c930 U.S. PTO  
09/682040  
07/12/01

Electronic Version 1.0.2

Stylesheet Version: 1.0

Attorney Docket Number: 1018.134US1

## SYSTEM AND METHOD FOR QUERY REFINEMENT TO ENABLE IMPROVED SEARCHING BASED ON IDENTIFYING AND UTILIZING POPULAR CONCEPTS RELATED TO USERS' QUERIES

First Named Inventor: Mr. Raman Chandrasekar

### SUBMITTED BY

Name: Michael Dryja

Registration Number: 39662

Electronic Signature Mark: Michael

Dryja

Date Signed: 20010712

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*I, the undersigned, certify that I have viewed a display of document(s) being electronically submitted to the United States Patent and Trademark Office, using either the USPTO provided style sheet or software, and that this is the document(s) I intend for initiation or further prosecution of a patent application noted in the submission. This document(s) will become part of the official electronic record at the USPTO.*

### Attached Files:

bibd-transmittal

efsapds.xml

fee-transmittal  
patent-assignment  
specification  
declaration  
declaration

efsfee.xml  
efsasgn.xml  
134 spec.xml  
D 1 of 2.tif  
D 2 of 2.tif

**Attached Image File(s):**

D 1 of 2.tif  
D 2 of 2.tif

09382040-074204

Comments:

0963040-04201  
002720-0423360

# PATENT APPLICATION

**DECLARATION AND POWER OF ATTORNEY** **ATTORNEY DOCKET NO. 1018.134US1**  
**FOR PATENT APPLICATION**

As a below named inventor, I hereby declare that:

My residence/post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

System and method for query refinement to enable improved searching based on identifying and utilizing popular concepts related to queries

the specification of which is attached hereto unless the following box is checked:

☐ was filed on \_\_\_\_\_ as US Application Serial No. or PCT International Application  
 Number \_\_\_\_\_ and was amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understood the contents of the above-identified specification, including the claims, as amended any amendment(s) referred to above. I acknowledge the duty to disclose all information which is material to patentability as defined CFR 1.56.

## Foreign Application(s) and/or Claim of Foreign Priority

I hereby claim foreign priority benefits under Title 35, United States Code Section 119 of any foreign application(s) for patent or inventor(s) certificate listed below have also identified below any foreign application for patent or inventor(s) certificate having a filing date before that of the application on which priority is claimed:

COUNTRY	APPLICATION NUMBER	DATE FILED	PRIORITY CLAIMED UNDER 35 U.S.C. 119
			YES: _____ NO: _____
			YES: _____ NO: _____

## Provisional Application

I hereby claim the benefit under Title 35, United States Code Section 119(e) of any United States provisional application(s) listed below:

APPLICATION SERIAL NUMBER	FILING DATE

## U.S. Priority Claim

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code Section acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56(a) which occurred between the filing date prior application and the national or PCT international filing date of this application:

APPLICATION SERIAL NUMBER	FILING DATE	STATUS(patented/pending/abandoned)

## POWER OF ATTORNEY:

As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) listed below to prosecute this application and transact all business in the Patent Office connected therewith.

Michael A. Dryja, Reg. No. 39662

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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R. Chandrasekar.

11 July 2001

DECLARATION AND POWER OF ATTORNEY  
FOR PATENT APPLICATION (continued)

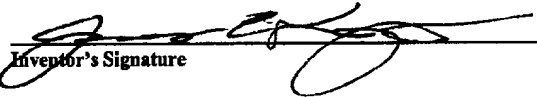
ATTORNEY DOCKET NO. 1018.134US1

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7/11/2001  
Date

09682040-074201

# FEE TRANSMITTAL

Electronic Version 1.0.4

Stylesheet Version: 1.0

*Patent fees are subject to annual revisions on or about October 1st of each year.*

Large Entity

**TOTAL FEES AUTHORIZED: \$ 1144**

## BANK (CREDIT) CARD INFORMATION:

Credit Card Number: 1000  
Expiration Date: 20030228  
Authorized Name: Michael Dryja  
Billing Address: 98074

## BASIC FILING FEE

Fee Description	Fee Code	Fee Paid
Utility Filing Fee	101	\$ 710

Subtotal For Basic Filing Fee: \$ 710

## EXTRA CLAIM FEES

	Fee Code	Fee	Extra Claims	Fee Paid
Total Claims: 33	103	\$ 18	13	\$ 234
Independent Claims: 5	102	\$ 80	2	\$ 160

Subtotal For Extra Claims Fees: \$ 394

## ADDITIONAL FEES

Fee Description	Fee Code	Fee Paid
Recording Each Patent Assignment Per Property Fee	581	\$ 40

Subtotal For Additional Fees: \$ 40